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Title of Invention: DOWNHOLE EQUIPMENT, TOOLS AND ASSEMBLY DROCEDURE			
Inventors (please provide full names): MICHEL GONDOUN			
Earliest Priority Filing Date: 1/4/ pa3			
		parent, child, divisional, or issued patent numbers) along with the	
litiga	tion search	fal .	
	RE3	57867 which is a reissue	
	of	Part. No. 5,462,120	
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STAFF USE ONLY	Type of Search	Vendors and cost where applicable	
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PTO-1590 (8-01)





Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents (i)

Terms: patno=5462120 (Edit Search)

814585 (08) 5462120 October 31, 1995

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT **5462120**

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Link to Claims Section

October 31, 1995

Downhole equipment, tools and assembly procedures for the drilling, tie- in and completion of vertical cased oil wells connected to liner-equipped multiple drainholes

REISSUE: Reissue Application filed Sep. 21, 2001 (O.G. Mar. 12, 2002) Ex. Gp.: 3506; Re. S.N. 09/956,806Reissue Application filed Apr. 4, 2001 (O.G. Dec. 25, 2001) Ex. Gp.: 3673; Re. S.N. 09/824, 738Reissue Application filed Sep. 4, 2001 (O.G. Dec. 18, 2001) Ex. Gp.: 3672; Re. S.N. 09/944,115Reissue Application filed May 22, 1997 (O.G. Oct. 28, 1997) Ex. Gp.: 3506; Re. S.N. 08/861,457, (O.G. March 12, 2002)

October 8, 2002 - This Patent was reissued as Reissue Patent RE 37,867 (O.G. October 8, 2002)

INVENTOR: Gondouin, Michel, San Rafael, CA

APPL-NO: 814585 (08)

FILED-DATE: January 4, 1993

GRANTED-DATE: October 31, 1995

ASSIGNEE-AT-ISSUE: S-Cal Research Corp., San Rafael, CA

ASSIGNEE-AFTER-ISSUE: April 20, 1992 - ASSIGNMENT OF ASSIGNORS INTEREST., S-CAL RESEARCH CORPORATION 32, SAN MARINO DR SAN RAFAEL CALIFORNIA 94901, Reel and Frame Number: 006081/0249

December 2, 1996 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., HALLIBURTON COMPANY P.O. BOX 819052 LEGAL, INTELLECTUAL PROPERTY DEPARTMENT D ALLAS TEXAS 75381, Reel and Frame Number: 008251/0146 May 22, 1997 - CHANGE OF NAME (SEE DOCUMENT FOR DETAILS)., HALLIBURTON ENERGY SERVICES, INC. LEGAL, INTELLECTUAL PROPERTY DEPARTMENT P.O . BOX 819052 DALLAS TEXAS 75381, Reel and Frame Number: 008535/0562

IPC-MAIN-CL: E 21B007#4

IPC ADDL CL: E 21B043#0

PRIM-EXMR: Dang, Hoang C.

CORE TERMS: drainhole, tubing, casing, liner, pump, string, packer, whipstock, completion, window ...





ENGLISH-ABST:

Single horizontal wells drilled through heterogeneous reservoirs are capable of greater oil productivity than vertical wells, often with lower produced GOR and WOR. Multiple drainholes tied-in to a vertical cased well are even more beneficial. Completion of such drainholes in many sandy reservoirs must use cemented liners. Well configurations comprising multiple drainholes liners, each of them tied- in to a vertical casing by pressure-tight connections require novel technologies making use of some novel downhole equipment, tools and procedures for drilling, tie-in and completion of such wells. These may be for newly-drilled wells or may be obtained by re-entry into an existing vertical cased well. Specific equipment, including novel casing joints, whipstocks, intermediate liners and tubing completion assembly components applicable to new wells are described herein. Equipment comprising novel casing inserts and patches applicable to re-entry wells, and the corresponding tubing completion assembly components for a variety of well exploitation modes are also described, together with the required tools and procedures. The liners of the drainholes are such that known well logging and cleaning tools may be used throughout the well's life. The various tubing completion assemblies can all be run-in and installed in a single trip. They allow either commingled flow from all drainholes or selective injection into some drainholes while others are under production. They are adapted to a variety of reservoir pressure conditions and of oil types, including heavy oil produced by sequential "huff and puff" steam injection.

Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents

Terms: patno=5462120 (Edit Search)
View: Custom
Segments: Appl-no, Assignee, Asst-exmr, Date, Exmr, Int-cl, Inventor, Legal-rep, Patno, Pct-pub-date, Prim-exmr,

Reissue, Title

Date/Time: Wednesday, March 19, 2003 - 4:22 PM EST

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Query/Command: US5462120/PN

** SS 1: Results 1

Search statement

Query/Command: PRT SS 1 MAX 1 LEGALALL

1/1 PLUSPAT - @QUESTEL-ORBIT - image

Patent Number:

US5462120 A 19951031 [US5462120]

Title:

(A) Downhole equipment, tools and assembly procedures for the drilling, tie-in and completion of verti wells connected to liner-equipped multiple drainholes

Patent Assignee:

(A) S CAL RESEARCH CORP (US)

Patent Assignee:

S-Cal Research Corporation, San Rafael CA [US]

Inventor(s):

(A) GONDOUIN MICHEL (US)

Application Nbr:

US81458593 19930104 [1993US-0814585]

Priority Details:

US81458593 19930104 [1993US-0814585]

Intl Patent Class:

(A) E21B-007/04 E21B-043/00

EPO ECLA Class:

E21B-007/06B

E21B-041/00L2

E21B-043/10

E21B-043/24

US Patent Class:

ORIGINAL (O): 166380000; CROSS-REFERENCE (X): 166050000 166117600 166242100 175061

Document Type:

Basic

Citations:

US1816260; US2397070; US2492079; US3330349; US4396075; US4396230; US4415205; US448978

US4742871; US5052482; US5085275; US5115872; US5127457

Publication Stage:

(A) United States patent

Abstract:

Single horizontal wells drilled through heterogeneous reservoirs are capable of greater oil productivity wells, often with lower produced GOR and WOR. Multiple drainholes tied-in to a vertical cased well a beneficial. Completion of such drainholes in many sandy reservoirs must use cemented liners. Well con comprising multiple drainholes liners, each of them tied-in to a vertical casing by pressure-tight connec novel technologies making use of some novel downhole equipment, tools and procedures for drilling, ti completion of such wells. These may be for newly-drilled wells or may be obtained by re-entry into an cased well. Specific equipment, including novel casing joints, whipstocks, intermediate liners and tubin assembly components applicable to new wells are described herein. Equipment comprising novel casi! patches applicable to re-entry wells, and the corresponding tubing completion assembly components fo well exploitation modes are also described, together with the required tools and procedures. The liners are such that known well logging and cleaning tools may be used throughout the well's life. The variou completion assemblies can all be run-in and installed in a single trip. They allow either commingled flo drainholes or selective injection into some drainholes while others are under production. They are adap of reservoir pressure conditions and of oil types, including heavy oil produced by sequential "huff and p injection.

1/1 LGST - @LEGSTAT

Patent Number:

US 5462120 [US5462120]

Application Details:

US 814585/93 19930104 [1993US-0814585]

Document Type:

US-P

Action Taken:

19920420 US/AS02 ASSIGNMENT OF ASSIGNOR'S INTEREST S-CAL RESEARCH CORPORATION 32, SAN MARINO DR SAN RAFAEL, CALIFORNIA 94901 MICHEL: 19911221

19930104 US/AE-A APPLICATION DATA (PATENT) US 814585/93 19930104 [1993US-0814585]

19951031 US/A PATENT

19961202 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST HALLIBURTON COMPANY P.O. BOX 819052 LEGAL, INTELLECTUAL PROPERTY DEPARTM S-CAL RESEARCH CORPORATION: 19961121

19970522 US/AS01 CHANGE OF NAME HALLIBURTON ENERGY SERVICES, INC. LEGAL, INTELLECTUAL PROPERTY DEPARTME HALLIBURTON COMPANY: 19961212

19971028 US/RF REISSUE APPLICATION FILED 970522

20011218 US/RF REISSUE APPLICATION FILED 20010904

20011225 US/RF REISSUE APPLICATION FILED 20010404

20020312 US/RF REISSUE APPLICATION FILED 20010921

Update Code:

2002-12

1 / I CRXX - @CLAIMS/RRX

1/1 CRAX - @CLAIMS/RRA

Patent Number:

5,462,120 A 19951031 [US5462120]

Patent Assignee:

S-Cal Research Corp

Actions:

19961202 REASSIGNED ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: S-CAL RESEARCH CORPORATION DATE SIGNED: 11/21/1996

Assignee: HALLIBURTON COMPANY P.O. BOX 819052 LEGAL, INTELLECTUAL PROPERTY

DALLAS TEXAS 75381

Reel 008251/Frame 0146

Contact: HALLIBURTON ENERGY SERVICES WILLIAM M. IMWALLE LEGAL, INTELLECTU DEPARTMENT MAIL CODE 1-B-121, P.O. BOX 819052 DALLAS, TX 75381

19970522 REASSIGNED **CHANGE OF NAME**

Assignor: HALLIBURTON COMPANY DATE SIGNED: 12/12/1996

Assignee: HALLIBURTON ENERGY SERVICES, INC. LEGAL, INTELLECTUAL PROPERTY DE P.O. BOX 819052 DALLAS TEXAS 75381

Reel 008535/Frame 0562

Contact: HALLIBURTON ENERGY SERVICES, INC. PAUL I. HERMAN LEGAL, INTELLECTUA DEPT. MAIL CODE 1-B-121, P.O. BOX 819052 DALLAS, TX 75381

19970522 REISSUE REQUESTED ISSUE DATE OF O.G.: 19971028 REISSUE REQUEST NUMBER: 08/861457

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3506

Reissue Patent Number: USRE37867

20010404 REISSUE REQUESTED ISSUE DATE OF O.G.: 20011225 REISSUE REQUEST NUMBER: 09/824738 **EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3673**

Reissue Patent Number:

20010904 REISSUE REQUESTED ISSUE DATE OF O.G.: 20011218 REISSUE REQUEST NUMBER: 09/944115 **EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3672**

Reissue Patent Number:

20010921 REISSUE REQUESTED ISSUE DATE OF O.G.: 20020312

REISSUE REQUEST NUMBER: 09/956806

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3506

Reissue Patent Number:

ery/Command: FILE INPADOC

Search statement 1

Query/Command: US5462120/PN

** SS 1: Results 1

Search statement

Query/Command: PRT SS 1 MAX 1 LEGAL

1/1 INPADOC - ©INPADOC

Patent Number:

US 5462120 A 19951031 [US5462120]

Title:

DOWNHOLE EQUIPMENT, TOOLS AND ASSEMBLY PROCEDURES FOR THE DRILLING, TIE COMPLETION OF VERTICAL CASED OIL WELLS CONNECTED TO LINER-EQUIPPED MULT DRAINHOLES

Inventor(s):

GONDOUIN MICHEL [US]

Patent Assignee (Words):

S CAL RESEARCH CORP [US]

Application Details:

US 814585/93-A 19930104 [1993US-0814585]

Priority Details:

US 814585/93-A 19930104 [1993US-0814585]

Intl. Patent Class.:

E21B-007/04; E21B-043/00

WPI Cross Reference:

1995-382077 (C)

1/1 LGST - ©LEGSTAT

Patent Number:

US 5462120 [US5462120]

Application Details:

US 814585/93 19930104 [1993US-0814585]

Document Type:

US-P

Action Taken:

19920420 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

S-CAL RESEARCH CORPORATION 32, SAN MARINO DR SAN RAFAEL, CALIFORNIA 94901 MICHEL : 19911221

19930104 US/AE-A APPLICATION DATA (PATENT) US 814585/93 19930104 [1993US-0814585]

19951031 US/A PATENT

19961202 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

HALLIBURTON COMPANY P.O. BOX 819052 LEGAL, INTELLECTUAL PROPERTY DEPARTM S-CAL RESEARCH CORPORATION: 19961121

19970522 US/AS01

CHANGE OF NAME

HALLIBURTON ENERGY SERVICES, INC. LEGAL, INTELLECTUAL PROPERTY DEPARTME HALLIBURTON COMPANY: 19961212

19971028 US/RF REISSUE APPLICATION FILED 970522

20011218 US/RF REISSUE APPLICATION FILED 20010904

20011225 US/RF REISSUE APPLICATION FILED 20010404

20020312 US/RF

REISSUE APPLICATION FILED 20010921

Update Code:

2002-12

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